Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the application:

1. (Cu	rrently Amended) A wireless communication device driven by an intern	al
power supply, the	device continuing a communication connection with another wireless	
communication de	vice by a control signal, and performing data transmission/reception with	Ī
said another wirele	ess communication device, comprising: disturbance component extracting	g
means for extraction	ng from a signal received by a receiving antenna a disturbance componen	ıŧ
which may affect t	he device's wireless communication signal	
an]	RSSI signal extracting means for extracting from a received signal an RS	SI
signal representing	g a level of the received signal; disturbance wave periodicity detecting	
means for detectin	g the radiation period by comparing the disturbance component extracted	1
by said disturbanc	e component extracting means with a frequency-divided signal obtained	aŧ
a gradually varyin	g frequency dividing ratio with respect to a clock signal of a predetermin	ed
frequency; and		
a d	isturbance wave periodicity detecting means for detecting a radiation	•
periodicity of a di	sturbance wave signal included in said RSSI signal, and distinguishing sa	<u>iid</u>
radiation periodic	ity of said disturbance wave signal to data transmission/reception with sa	<u>id</u>
another wireless c	ommunications device;	
a c	ommunication control means for performing the exchange of a	
communication pa	acket during a radiation-free period of time within the radiation period	
detected by said d	isturbance wave periodicity detecting meansthe data transmission/recepti	ion
with said another	wireless communications device; and	
a c	ommunication connection continuing means for continuing the	
communication co	onnection with said another wireless communications device by said cont	<u>trol</u>

signal established into a present frequency band which is not substantially affected by said disturbance wave signal.

- 2. (Currently Amended) The wireless communication device according to claim 1, wherein said disturbance wave periodicity detecting means comprises a frequency dividing circuit for gradually increasing a frequency dividing ratio with respect to an input clock signal of a predetermined frequency and a period determination circuit for determining the period of asaid disturbance wave signal by comparing a signal received by a receiving antenna said RSSI signal extracted by said RSSI extracting means with a frequency-divided signal from said frequency dividing circuit.
- 3. (Currently Amended) The wireless communication device according to claim
 1, wherein said eemmunication control means comprises communication connection
 continuing means for shifting shifts the transmission frequency of asaid control signal to keep
 the communication connection established into a preset disturbance free frequency band
 which is not substantially affected by said disturbance wave signal and to secure to continue
 the continuation of the communication connection with said another wireless
 communications device when the radiation period of asaid disturbance wave signal is
 detected by said disturbance wave periodicity detecting means.
- 4. (Currently Amended) The wireless communication device according to claim 1, wherein said communication control means communication connection continuing means comprises transmission means for notifying of a communication partner about the presence and period of asaid disturbance wave signal, anythe communication partner which cannot unable to detect the presence of the disturbance wave signal when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means.

- 5. (Currently Amended) The wireless communication device according to claim 1, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 6. (Currently Amended) The wireless communication device according to claim 5, wherein said power control means is configured to determine whether a communication packet can be transmitted said data transmission/reception with said another wireless communication device can be performed when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means, and to discontinue the power control when the communication packet cannot be transmitted said data transmission/reception cannot be performed.
- 7. (Currently Amended) The wireless communication device according to claim 2, wherein said communication control means communication connection continuing means comprises transmission means for notifying of a communication partner about the presence and period of asaid disturbance wave signalany, the communication partner which cannot unable to detect the presence of the disturbance wave signal when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means.
- 8. (Currently Amended) The wireless communication device according to claim
 3, wherein said communication control means communication connection continuing means
 comprises transmission means for notifying of, about the presence and period of asaid
 disturbance wave signalany, to communication partner which cannot detect the presence of
 the disturbance wave signal when the radiation period of a disturbance wave signal is detected
 by said disturbance wave periodicity detecting means.

- 9. (Currently Amended) The wireless communication device according to claim 2, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 10. (Currently Amended) The wireless communication device according to claim 3, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 11. (Currently Amended) The wireless communication device according to claim 4, comprising power control means for controlling the power depending on the radiation period of the disturbance wave detected by said disturbance wave <u>signal</u> periodicity detecting means.
- 12. (Currently Amended) The wireless communication device according to claim2,

wherein said communication control means comprises communication

connection continuing means for shiftingshifts the transmission frequency of asaid control

signal to keep the communication connection established into a preset disturbance free

frequency band which is not substantially affected by said disturbance wave signal and to

secure the continuation of to continue the communication connection with said another

wireless communications device when the radiation period of asaid disturbance wave signal is

detected by said disturbance wave periodicity detecting means.